

[illegible]

A modem's profile is made up of its Downstream and Upstream I/Indexes
FEC factor is the type of FEC used for that profile

Bandwidth/modulation tradeoffs

downstream		assume 64QAM and 6 MHz as reference			
		required S/N for 10 ⁻⁶			
		Modulation			
			27	21.5	13.5
			64 QAM	16 QAM	QPSK
		Bandwidth			
Downstream	6000		0.0	5.5	13.5
	2000		4.8	10.3	18.3
	1000		7.8	13.3	21.3
Up Stream		assume 16 QAM and 2 MHz as reference			
		required S/N for 10 ⁻⁶			
		Modulation			
			21.5	13.5	
			16 QAM	QPSK	
		Bandwidth			
	3200		0.0	8.0	
	1600		3.0	11.0	
	800		6.0	14.0	
	400		9.0	17.0	
	200		12.0	20.0	

Figure 2

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

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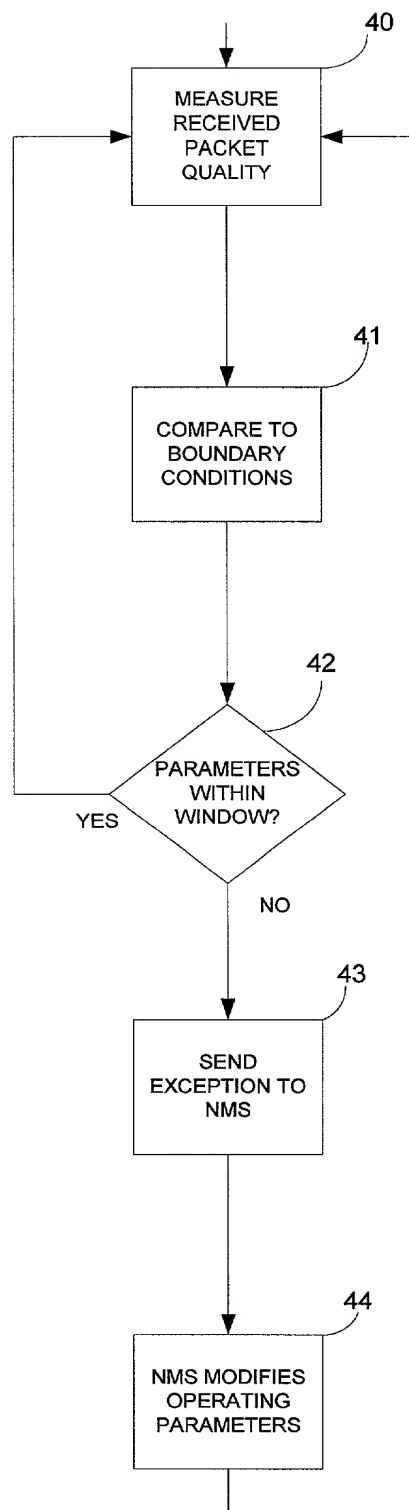


FIGURE 4

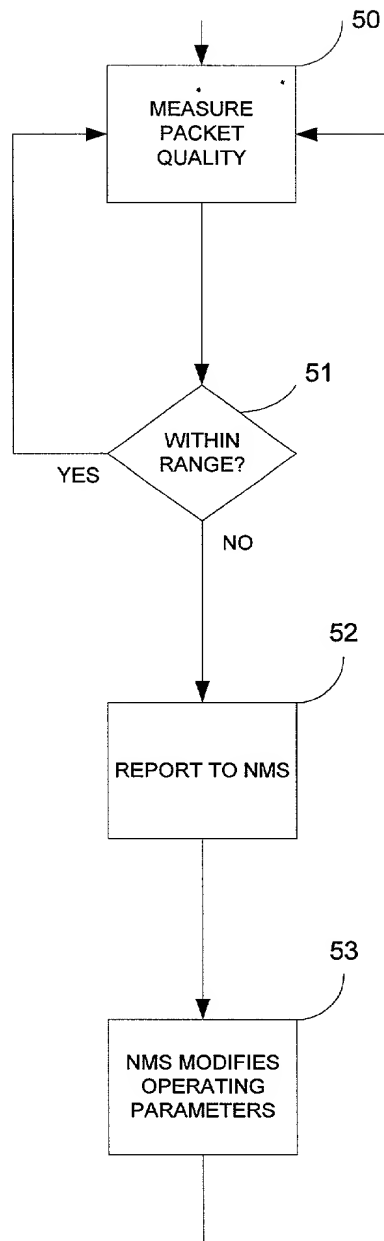


FIGURE 5